WHAT IS CLAIMED IS:

1	1.	A head driving device of a liquid ejecting apparatus, comprising:	
2		a liquid ejecting head, formed with a nozzle orifice from which a liquid	
3	droplet is ejected;		
4		a driving signal generator, generating a driving signal;	
5		a pressure generating element, applying pressure to liquid based on	
6	the driv	the driving signal for ejecting the liquid droplet;	
7		a charge element, charged at a reference voltage lower than a drive	
8	voltage	for driving the pressure generating element, and applying a bias	
9	voltage to the pressure generating element; and		
10		a discharge circuit, discharging a charge on the charge element to a	
11	ground when a voltage of the charge on the charge element is equal to or		
12	higher than a first voltage which is higher than the bias voltage.		
1	2.	The head driving device as set forth in claim 1, wherein the discharge	
2	circuit includes a switching element connected between the charge element		
3	and the ground; and		
4		wherein the switching element is turned on when the voltage of the	
5	charge	charge on the charge element is equal to or higher than the first voltage.	
1	3.	The head driving device as set forth in claim 2, wherein the switching	
2	element includes a transistor, the base of which is connected to a reference		
3	voltage	voltage source, the emitter of which is connected to the charge element and	
1	the col	lector of which is arounded	

- 1 4. The head driving device as set forth in claim 3, wherein a current
- 2 limiter resistor is connected in series between the collector of the charge
- 3 element and the ground.
- 1 5. The head driving device as set forth in claim 1, further comprising an
- abnormal voltage detector, outputting a detection signal when the voltage of
- 3 the charge on the charge element reaches a second voltage higher than the
- 4 first voltage.
- 1 6. The head driving device as set forth in claim 3, wherein the transistor
- 2 is a FET.
- 1 7. The head driving device as set forth in claim 1, wherein the pressure
- 2 generating element is a piezoelectric element.
- 1 8. The head driving device as set forth in claim 1, wherein the charge
- 2 element is a capacitor
- 1 9. A method of discharging a charge on a charge element of a head
- driving device of a liquid ejecting head, comprising the steps of:
- gejecting a liquid droplets based on a driving signal by applying
- 4 pressure to liquid;
- 5 charging a charge element at a reference voltage lower than a drive
- 6 voltage for ejecting the liquid droplet;
- 7 applying a bias voltage to a pressure generating element by the

- 8 charge on the charge element; and
- discharging the charge on the charge element to a ground when a voltage of the charge on the charge element is equal to or higher than a first voltage which is higher than the bias voltage.
 - 1 10. The method as set forth in claim 9, further comprising the steps of:
 - detecting whether the voltage of the charge on the charge element reaches a second voltage higher than the first voltage; and
 - outputting a detection signal based on a result of the detecting step.